This listing of claims will replace all prior versions and listings of claims in the

application:

LISTING OF CLAIMS:

1. (currently amended): An ac generator for a vehicle comprising:

a rotor having field windings and a plurality of fan blades which bend incoming air at a

right angle,

a stator including a stator core arranged opposed to the rotor and an insulating coated

electrical conductor wound on the stator core, and

a housing directly supporting a periphery of the stator core and protecting the electrical

conductor, wherein the stator core is constituted by laminated core having a plurality of slots

each extending to an axial direction, the electrical conductor is comprised of a slot-in portion

located in the slots and a cross-over portion connecting each of the slot-in portions at the shaft

end side of the stator,

wherein the conductor is formed of a previously coated insulated wire and the slot-in

portion of the conductor is molded to be substantially rectangular in its cross-sectional profile

before it is entered in the slots so that at a least longer side portion of the conductor of the slot-in

portion located in the slots has an insulation coating of which thickness is smaller than that of

insulation coating in the cross-over portion, and

wherein the slot-in portions of the conductor are accumulated in the slots so that a longer

side thereof is being in the radial direction without any air space and a shorter side thereof in a

2

AMENDMENT UNDER 37 C.F.R. § 1.114(c) Attorney Docket No.: Q91286

U.S. Application No.: 10/560,244

circumferential direction, and the cross-over portion is kept substantially circular in its cross-

sectional profile without being molded,

wherein the periphery of the cross-over portion is protected by the housing and the

laminated core is directly held by the housing made of metal, and

wherein the periphery of the housing is provided with a plurality of ribs and charging air

holes or discharging air holes formed between the ribs.

2 - 3. (canceled).

4. (previously presented): An ac generator for a vehicle of claim 1, wherein a

conductor of the slot-in portion located in the slots is closely disposed on a line to the radial

direction.

5. (previously presented): An ac generator for a vehicle of claim 1, wherein a

conductor of the slot-in portion located in the slot is closely disposed on plural lines to the radial

direction.

6. (original): An ac generator for a vehicle of claim 1, wherein a conductor of the

slot-in portion located in the slot is impregnated with insulating resins.

3

AMENDMENT UNDER 37 C.F.R. § 1.114(c) Attorney Docket No.: Q91286

U.S. Application No.: 10/560,244

7 - 9. (canceled).

10. (previously presented): An ac generator for a vehicle of claim 6, wherein the

insulation coating in the slot-in portion and the insulation coating in the cross-over section are

made of the same material.

11 - 12. (canceled).

13. (previously presented): The ac generator for a vehicle of claim 1, wherein the

insulation coated electrical conductor has a diameter of 1.6 mm for the cross-over portion, and

the insulation coated electrical conductor is flattened into one direction to a thickness of 1.3 mm

for the slot-in portion.

14. (previously presented): The ac generator for a vehicle of claim 1, wherein the

thickness of the insulation coating of the cross-over portion is 50 um, and

the thickness of the insulation coating of the slot-in portion is 40 um.

15. (previously presented): The ac generator for a vehicle of claim 8, wherein the

plurality of fan blades draw the incoming air longitudinally from the charging air holes and

exhaust the air through the discharging air holes.

4

AMENDMENT UNDER 37 C.F.R. § 1.114(c)

U.S. Application No.: 10/560,244

16. (previously presented): The ac generator for a vehicle of claim 1, wherein the incoming air is bent centrifugally.

Attorney Docket No.: Q91286